

**From:** Dave Larsen <dlarsen@reiengineering.com>  
**Sent:** Tuesday, March 19, 2019 2:59 PM  
**To:** Stoltz, Carrie R - DNR  
**Subject:** Tower Standard  
**Attachments:** MIP Report Submittal.pdf

Carrie, attached is a cost estimate request for REI to prepare a report documenting the Membrane Interface Probe (MIP) scope of services completed in 2016. REI was not initially tasked with completing this report. US EPA contractor Bristol Env. had contracted S2C2 to review, interpret and prepare documentation specific to the MIP scope of services. In order for REI to provide a report on the MIP scope REI will need to download specific modelling software and interpret the data presented. Below is a list of the 4-D files prepared by Cascade (REI contractor tasked with advancing and initial interpretation of the MIP work). Please let me know if you have any questions or concerns.

Name	Type	Compressed size	Password p...	Size
 ec - 3d - rei - tower standard - lac ...	EVS 4D File	15,477 KB	No	15,881 KB
 ec - easting slice - rei - tower stand...	EVS 4D File	14,249 KB	No	15,686 KB
 ec - horizontal slice - rei - tower st...	EVS 4D File	8,232 KB	No	8,457 KB
 ec - northing slice - rei - tower stan...	EVS 4D File	15,568 KB	No	16,995 KB
 est. k - 3d - rei - tower standard - l...	EVS 4D File	25,297 KB	No	25,794 KB
 est. k - easting slice - rei - tower st...	EVS 4D File	14,409 KB	No	15,831 KB
 est. k - northing slice - rei - tower s...	EVS 4D File	15,810 KB	No	17,214 KB
 est.k - horizontal slice - rei - tower ...	EVS 4D File	8,438 KB	No	8,661 KB
 fid - 3d - rei - tower standard - lac ...	EVS 4D File	8,534 KB	No	8,832 KB
 fid - easting slice - rei - tower stan...	EVS 4D File	14,223 KB	No	15,672 KB
 fid - horizontal slice - rei - tower st...	EVS 4D File	8,269 KB	No	8,498 KB
 fid - northing slice - rei - tower sta...	EVS 4D File	15,389 KB	No	16,839 KB
 hpt flow - 3d - rei - tower standard...	EVS 4D File	61,747 KB	No	63,834 KB
 hpt flow - easting slice - rei - tower...	EVS 4D File	13,216 KB	No	14,668 KB
 hpt flow - horizontal slice - rei - to...	EVS 4D File	7,757 KB	No	7,983 KB
 hpt flow - northing slice - rei - tow...	EVS 4D File	14,516 KB	No	15,956 KB
 hpt pressure - 3d - rei - tower stan...	EVS 4D File	22,194 KB	No	22,825 KB
 hpt pressure - easting slice - rei - t...	EVS 4D File	13,957 KB	No	15,407 KB
 hpt pressure - horizontal slice - rei ...	EVS 4D File	7,907 KB	No	8,140 KB
 hpt pressure - northing slice - rei - ...	EVS 4D File	15,315 KB	No	16,776 KB
 pid - 3d - rei - tower standard - lac...	EVS 4D File	10,991 KB	No	11,318 KB
 pid - easting slice - rei - tower stan...	EVS 4D File	13,616 KB	No	15,051 KB
 pid - horizontal slice - rei - tower s...	EVS 4D File	8,166 KB	No	8,390 KB
 pid - northing slice - rei - tower sta...	EVS 4D File	14,816 KB	No	16,247 KB
 xsd - 3d - rei - tower standard - lac...	EVS 4D File	34,494 KB	No	35,519 KB
 xsd - easting slice - rei - tower stan...	EVS 4D File	13,800 KB	No	15,265 KB
 xsd - horizontal slice - rei - tower s...	EVS 4D File	8,417 KB	No	8,644 KB
 xsd - northing slice - rei - tower sta...	EVS 4D File	15,265 KB	No	16,728 KB




Thank you,  
*David N. Larsen P.G*  
*Senior Hydrogeologist / Professional Geologist*



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# Usual and Customary Standardized Invoice #25

## January 2019 - June 2019



RR-107a

PECFA #: 54538-9514-67  
 BRRTS #: 03-64-127899  
 Site Name: Tower Standard  
 Site Address: 14267 Hwy 70, Lac du Flambeau

Vendor Name: REI  
 Invoice #:  
 Invoice Date: 3-19-2019 Proposal Date  
 Check #:

U&C Total \$ 381.78  
 Variance to U&C Total \$ 3,972.43  
 Grand Total \$ 4,354.21

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78	1	\$ 381.78
Variance	Complete MIP Report				Variance	\$3,972.43	1	\$ 3,972.43

**Variance Request**  
**3-19-2019 Proposal Date**  
**Complete MIP Report**  
**Tower Standard**

Description	Task	Quantity	Unit Cost	Event	Events	Total Cost
<b>Report Documentation</b>						
	Interpret, Prepare and Submit MIP Report	33	\$112.96	\$3,727.68	1	\$3,727.68
	Report Review	1	\$112.96	\$112.96	1	\$112.96
	Administrative	3	\$43.93	\$131.79	1	\$131.79
						<b>\$3,972.43</b>

\\reifnp\projects\0900-0999\0903-Tower\903 Proposed Work\2019\{MIP-LIF Report.xlsx}Sheet1